



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/720,087	11/25/2003	Yoshiharu Macda	1081.1185	4918

21171 7590 12/29/2006
STAAS & HALSEY LLP
SUITE 700
1201 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

EXAMINER

DESIR, PIERRE LOUIS

ART UNIT	PAPER NUMBER
----------	--------------

2617

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	12/29/2006	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/720,087

Applicant(s)

MAEDA ET AL.

Examiner

Pierre-Louis Desir

Art Unit

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 October 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☒ None of:
- ☒ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/02/2006 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claims 1, 16, and 22 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-2, 5, 16-20, and 22 are rejected under 35 U.S.C. 102(e) as being anticipated by Giniger et al. (Giniger), U.S Patent No. 6199045.

Regarding claim 1, Giniger discloses a system comprising a terminal for measuring the position of the mobile body (i.e., means for determining present position information from

Art Unit: 2617

received position signals) (see col. 5, lines 52-53), encrypting the measured position information by predetermined encryption means and transmitting the encrypted position information (i.e., means for encrypting the present position information and means coupled to the encrypting means for sending the encrypted present position information to the central server) (see col. 6, lines 21-26); and a position recording apparatus (i.e., central server) (see col. 5, lines 50-51), remotely located from the terminal (see fig. 1), communicating with the terminal through a radio network (i.e., wireless means for establishing a bidirectional communications) (see col. 5, lines 51-58), receiving the position information transmitted from the terminal through a radio network (i.e., means for receiving the present position information from the mobile unit via the bidirectional communications link) (see col. 5, line 66 to col. 6, line 1) and recording the position information in an encrypted state (i.e., by receiving the present position information, the central site server inherently records or stores the present position information to compare it with stored responses information) (see col. 5, line 66 to col. 6, line 7), wherein the position recording apparatus can decrypt the encrypted position information by using the decryption data only when the terminal sends the decryption data to allow the position recording apparatus to decrypt the encrypted position information and the position recording apparatus receives the decryption data from the terminal (i.e., means, coupled to the encrypted present position information receiving means, for decrypting the encrypted present position information) (see col. 6, lines 35-37). Also, Ginger discloses in col. 17, lines 29-57:

If a secure connection is desired by the user or required by the central site server 107', then the process continues at step 604, where the central site server 107' uses the established circuit-switched data connection to send its public key certificate to a security unit contained within the mobile unit 103'. In step 605, the mobile unit 103' uses the established circuit-switched data connection to transmit back to the central site server 107' a message that includes a challenge field encrypted using the public key of the central site server 107' and the mobile unit's public key certificate. Next, at step 606, the central site server 107' decrypts the challenge field that was received from the mobile unit 103' in step 605, and sends both the challenge field and a symmetric key back to

Art Unit: 2617

the mobile unit 103' via the established circuit-switched data connection. This message is transmitted in an encrypted form using a public key envelope. Upon receipt of the message, the security element in the mobile unit 103' decrypts the public key envelope and stores the symmetric key for use in all future transmissions with the central site server 107' for the duration of the call (step 607). That is, all subsequent transmissions with the mobile unit 103' will be encrypted using the symmetric key. The mobile unit 103' encrypts the challenge field originally transmitted in step 605 using the symmetric key and sends the encrypted challenge to the central site server 107' (step 608).

As can be seen from the above disclosure, Giniger describes the mobile unit sending decryption data to allow both the central server and the mobile unit to decrypt encrypted data using a symmetric key.

Regarding claim 2, Giniger discloses a system (see claim 1 rejection) wherein the position recording apparatus transmits to the terminal the encrypted position information of the mobile body corresponding to the terminal, based on a request from the terminal (i.e., means for sending an encrypted retrieved response information to the mobile unit) (see col. 6, lines 37-43), and wherein the terminal decrypts the encrypted position information using the decryption data that the terminal retains (i.e., the mobile unit's means for receiving response information comprises means for decrypting the encrypted response information) (see col. 6, lines 26-31). Also refer to col. 17, lines 29-57.

Regarding claim 5, Giniger discloses a system (see claim 1 rejection) wherein when the position recording apparatus has received the decryption data retained by the terminal from the terminal, the position recording apparatus, based on a request from the terminal, decrypts the encrypted position information of a mobile body corresponding to the terminal using the decryption data information (i.e., means, coupled to the encrypted present position information receiving means, for decrypting the encrypted present position information) (see col. 6, lines 35-37. Also refer to col. 17, lines 29-57), executes a predetermined process for the decrypted

Art Unit: 2617

position information and transmits the result of the process to the terminal (i.e., means for sending an encrypted retrieved response information to the mobile unit) (see col. 6, lines 37-43).

Regarding claim 16, Giniger discloses a terminal comprising a measuring unit for measuring the position of a mobile body i.e., means for determining present position information from received position signals) (see col. 5, lines 52-53); an encryption unit for encrypting the measured position information by predetermined encryption means (i.e., means for encrypting the present position information and means coupled to the encrypting means for sending the encrypted present position information to the central server) (see col. 6, lines 21-26); a communication unit for transmitting the encrypted position information to a position recording apparatus, remotely located from the terminal, from the terminal through a radio network (e.g., bidirectional communications link) (see col. 5, line 66 to col. 6, line 1) (i.e., means coupled to the encrypting means for sending the encrypted present position information to the central server) (see col. 6, lines 21-26); and decryption unit having decryption data for decrypting the encrypted position information, the decryption unit when receiving the encrypted position information from the communication unit, decrypting the received encrypted position information using the decryption data (i.e., means, coupled to the encrypted present position information receiving means, for decrypting the encrypted present position information) (see col. 6, lines 35-37. Also refer to col. 17, lines 29-57).

Regarding claim 17, Pirila discloses position recording apparatus remotely located from a terminal of a mobile body (i.e., central site server) (see fig. 1), the position recording apparatus comprising: a communication for receiving encrypted position information relating to the position of at least one mobile body, from a terminal of the mobile body (i.e., means coupled to

Art Unit: 2617

the encrypting means for sending the encrypted present position information to the central server) (see col. 6, lines 21-26); and a database (i.e., inherently part of the central server site) in which the position information is recorded in the encrypted state (see col. 6, lines 1-7, 19-43), wherein the position recording apparatus can decrypt the encrypted position information by using the decryption data only when the terminal sends the decryption data to allow the position recording apparatus to decrypt the encrypted position information and the position recording apparatus receives the decryption data from the terminal (i.e., means, coupled to the encrypted present position information receiving means, for decrypting the encrypted present position information) (see col. 6, lines 35-37. Also refer to col. 17, lines 29-57).

Regarding claim 18, Giniger discloses an apparatus (see claim 17 rejection) further comprising: an acquisition unit for acquiring the position information recorded in the database, in response to a predetermined request (i.e., means for determining present position information from received position signals) (see col. 5, lines 52-53), wherein the communication unit transmits the acquired position information from the communication unit in the encrypted state (i.e., means for encrypting the present position information and means coupled to the encrypting means for sending the encrypted present position information to the central server) (see col. 6, lines 21-26).

Regarding claim 19, Giniger discloses an apparatus (see claim 17 rejection) further comprising: an acquisition unit for acquiring the position information recorded in the database, in response to a predetermined request (i.e., means for determining present position information from received position signals) (see col. 5, lines 52-53); a decryption unit for decrypting encrypted position information (i.e., means, coupled to the encrypted present position

Art Unit: 2617

information receiving means, for decrypting the encrypted present position information) (see col. 6, lines 35-37. Also refer to col. 17, lines 29-57); a processing unit executing a predetermined process for the decrypted position information (see col. 6, lines 1-7 and lines 37-43), wherein when the decryption unit receives, together with the request, the decryption data for decrypting the encrypted position information, the decryption unit decrypts the acquired encrypted position information and transmits the decrypted position information (i.e., the mobile unit's means for receiving response information comprises means for decrypting the encrypted response information) (see col. 6, lines 26-43). Also refer to col. 17, lines 29-57.

Regarding claim 20, Giniger discloses an apparatus (see claim 17 rejection) further comprising: an acquisition unit for acquiring the position information recorded in the database, in response to a predetermined request (i.e., means for determining present position information from received position signals) (see col. 5, lines 52-53); a decryption unit for decrypting encrypted position information (i.e., means, coupled to the encrypted present position information receiving means, for decrypting the encrypted present position information) (see col. 6, lines 35-37. Also refer to col. 17, lines 29-57); a processing unit for executing a predetermined process for the decrypted position information (see col. 6, lines 1-7 and lines 37-43), wherein when the decryption unit receives, together with the request, the decryption data for decrypting the encrypted position information, the decryption unit decrypts the acquired encrypted position information and the processing unit transmits the result of the predetermined process executed for the decrypted position information (i.e., the mobile unit's means for receiving response information comprises means for decrypting the encrypted response information) (see col. 6, lines 26-43). Also refer to col. 17, lines 29-57.

Art Unit: 2617

Regarding claim 22, Giniger discloses a method of managing position information of a mobile body, comprising receiving encrypted position information relating to the position of at least one mobile body, transmitted through a radio network from a remote terminal of the mobile body (i.e., encrypting the present position information and means coupled to the encrypting means for sending the encrypted present position information to the central server) (see col. 6, lines 21-26); and recording the position information in an encrypted state, wherein the encrypted position information is decrypted using decryption data only when the remote terminal sends the decryption data to decrypt the encrypted position information and the decryption data is received from the terminal (i.e., decrypting the encrypted present position information) (see col. 6, lines 1-7, and 26-43. Also refer to col. 17, lines 29-57).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 3-4, 6-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Giniger in view of Olsson, Pub. No. US 2002/0080968.

Regarding claim 3, Giniger discloses a system as described above (see claim 1 rejection).

Although Giniger discloses a system as described, Giniger does not specifically disclose a system wherein when the position recording apparatus has received predetermined permission information from a first terminal, the position recording apparatus transmits the encrypted

Art Unit: 2617

position information of the mobile body corresponding to the first terminal, based on a request from a second terminal, and wherein when the second terminal has received the decryption data retained by the first terminal from the first terminal, the second terminal can decrypt the encrypted position information.

However, Olsson discloses a system wherein when the position recording apparatus has received predetermined permission information from a first terminal, the position recording apparatus transmits the encrypted position information of the mobile body corresponding to the first terminal, based on a request from a second terminal (i.e., a client's identification information is encrypted with an encryption key previously obtained from a network location server (NLS). The encryption key may be a public key in a public key encryption system. The NLS maintains a record indicating a location associated with the identification information. The encrypted identification information is transmitted from the client to the SP. The SP launches a location request to the NLS that includes the encrypted identification information received from the client) (see paragraphs 10 and 43), and wherein when the second terminal has received the decryption data retained by the first terminal from the first terminal (i.e., the MC 30 also exchanges public key(s) with the SP 60 and the SP 60 with the NLS 270) (see paragraphs 38 and 43), the second terminal can decrypt the encrypted position information (i.e., the SP 60 decrypts the location information message received from the NLS 270) (see paragraph 42).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings as described by the references to arrive at the claimed invention. A motivation for doing so would have been to maintain the integrity and confidentiality of the location information (see paragraph 8).

Regarding claim 4, Giniger discloses a system as described above (see claim 1 rejection).

Although Giniger discloses a system as described, Giniger does not specifically disclose a system wherein when the position recording apparatus has received predetermined permission information from the terminal, the position recording apparatus transmits the encrypted position information of a mobile body corresponding to the terminal, to a position information service center, based on a request from the position information service center providing predetermined services to the terminal, and wherein when the position information service center has received the decryption data retained by the terminal from the terminal, the position information service center decrypts the encrypted position information, executes a predetermined process for the decrypted position information and transmits the result of the process to the terminal.

However, Olsson discloses a system wherein when the position recording apparatus has received predetermined permission information from the terminal, the position recording apparatus transmits the encrypted position information of a mobile body corresponding to the terminal, to a position information service center, based on a request from the position information service center providing predetermined services to the terminal (i.e., a client's identification information is encrypted with an encryption key previously obtained from a network location server (NLS). The encryption key may be a public key in a public key encryption system. The NLS maintains a record indicating a location associated with the identification information. The encrypted identification information is transmitted from the client to the SP. The SP launches a location request to the NLS that includes the encrypted identification information received from the client) (see paragraphs 10 and 43), and wherein when the position information service center has received the decryption data retained by the

Art Unit: 2617

terminal from the terminal (i.e., the MC 30 also exchanges public key(s) with the SP 60 and the SP 60 with the NLS 270) (see paragraphs 38 and 43), the position information service center decrypts the encrypted position information (i.e., the SP 60 decrypts the location information message received from the NLS 270) (see paragraph 42), executes a predetermined process for the decrypted position information and transmits the result of the process to the terminal (i.e., the SP 60 then generates a service response message to the initial service request from the MC 30 with the requested service adapted to the location of the MC 30. Additionally, the SP 60 may sign the response using the SP private key. In either case, the response is encrypted using the MC public key. The MC 30 then decrypts the service response message received from the SP 60. If the SP's 60 signature is included, the MC 40 verifies the signature of the SP 60 using the SP public key. The requested service may then be presented to the subscriber via the MC 30 device, i.e., to the end-user of the device) (see paragraph 42).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings as described by the references to arrive at the claimed invention. A motivation for doing so would have been to maintain the integrity and confidentiality of the location information (see paragraph 8).

Regarding claim 6, Giniger discloses a system (see claim 1 rejection) wherein when the position recording apparatus has received the decryption data retained by the terminal from the terminal, the position recording apparatus, based on a request from the terminal, decrypts the encrypted position information of a mobile body corresponding to the terminal using the decryption data (i.e., means, coupled to the encrypted present position information receiving

Art Unit: 2617

means, for decrypting the encrypted present position information) (see col. 6, lines 35-37. Also refer to col. 17, lines 29-57).

Although Giniger discloses a system as described, Giniger does not specifically disclose a system comprising transmitting the decrypted position information to a position information service center providing predetermined services to the terminal, and wherein the position information service center executes a predetermined process for the decrypted position information and transmits the result of the process to the position recording apparatus, and wherein the position recording apparatus transmits the result of the process to the terminal.

However, Olsson discloses a system wherein the NLS decrypts the client's encrypted identification information and maintains a record indicating a location associated with the client's identification information. A SP receives the transmitted encrypted identification information from the mobile electronic equipment, transmits a location request to the NLS, the location request including the received encrypted identification information, and provides the location-based service to the subscriber via the mobile electronic equipment according to a response to the location request from the NLS (see paragraph 11).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings as described by the references to arrive at the claimed invention. A motivation for doing so would have been to maintain the integrity and confidentiality of the location information (see paragraph 8).

Regarding claim 7, Giniger discloses a system as described above (see claim 1 rejection).

Although Giniger discloses a system as described, Giniger does not specifically disclose a system wherein when the position recording apparatus has received predetermined permission

Art Unit: 2617

information from the terminal, the position recording apparatus, based on a request from a third party, decrypts the encrypted position information of a mobile body corresponding to the terminal using the decryption data, executes predetermined process for the decrypted position information and transmits the result of the process to the third party.

However, Olsson discloses a system wherein when the position recording apparatus has received predetermined permission information from the terminal, the position recording apparatus, based on a request from a third party (i.e., a client's identification information is encrypted with an encryption key previously obtained from a network location server (NLS). The encryption key may be a public key in a public key encryption system. The NLS maintains a record indicating a location associated with the identification information. The encrypted identification information is transmitted from the client to the SP. The SP launches a location request to the NLS that includes the encrypted identification information received from the client) (see paragraphs 10-13, and 43), decrypts the encrypted position information of a mobile body corresponding to the terminal using the decryption data (i.e., the NLS decrypts the client's encrypted identification information and maintains a record indicating a location associated with the client's identification information) (see paragraphs 10-13), executes predetermined process for the decrypted position information (i.e., maintains a record indicating a location associated with the client's identification information) (see paragraphs 10-13), and transmits the result of the process to the third party (i.e., SP receives the transmitted encrypted identification) (see paragraphs 10-13).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings as described by the references to arrive at the claimed

Art Unit: 2617

invention. A motivation for doing so would have been to maintain the integrity and confidentiality of the location information (see paragraph 8).

Regarding claims 8-9, Giniger discloses a system (see claim 7 rejection) wherein the predetermined process is a process for responding to a query relating to a mobile body corresponding to the terminal (i.e., sending a retrieved response to the mobile terminal) (see col. 6, lines 37-43).

Regarding claim 10, Giniger discloses a system (see claim 7 rejection) wherein the query is at least one of "where is the current position of the mobile body", "whether the mobile body is/was at a designated place", "whether the mobile body is/was at a designated place on a designated date at a designated time", "where is the position at which the mobile body was on a designated date at a designated time" and "on which data and at what time the mobile body was at a designated place" (i.e., from the request, the central site server may correct the motion of the mobile user if the user is going in the wrong direction (e.g., request and response related to the current position of the mobile body) (see col. 11, lines 21-32).

7. Claims 11-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Giniger in view of Pirila, U.S. Patent No. 6674860.

Regarding claim 11, Giniger discloses a system as described (see claim 1 rejection).

Although Giniger discloses a system as described, Giniger does not specifically disclose a system wherein the terminal comprises a plurality of encryption means, and is capable of switching the encryption means for encrypting the position information, based on the position of the terminal and/or the time, or on an instruction from a mobile body (i.e., the decryption key can

Art Unit: 2617

be changed, in which case the new decryption key is transferred to the mobile station advantageously periodically in conjunction with the location update procedure) (see abstract).

However, Pirila discloses a system wherein the terminal comprises a plurality of encryption means, and is capable of switching the encryption means for encrypting the position information, based on the position of the terminal and/or the time, or on an instruction from a mobile body (i.e., the decryption key can be changed, in which case the new decryption key is transferred to the mobile station advantageously periodically in conjunction with the location update procedure) (see abstract).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings as described to arrive at the claimed invention. A motivation for doing so would have been to ensure the security as related to the transmission of the location information.

Regarding claim 12, Giniger discloses a system (see claim 1 rejection) wherein the terminal the terminal can measure the position of the mobile body (i.e., means for determining present position information from received position signals) (see col. 5, lines 52-53), encrypt the measured position information with predetermined encryption means and transmit the encrypted position information (i.e., means for encrypting the present position information and means, coupled to the encrypting means, for sending the encrypted present position information to the central server) (see col. 6, lines 21-26).

Although Giniger discloses a terminal as described, Giniger does not specifically disclose that the terminal comprises a personal authentication means for a mobile body, and wherein

Art Unit: 2617

when a personal authentication is successfully completed, the terminal can measure the position of the mobile body.

However, Pirila discloses a system wherein the terminal comprises a personal authentication means for a mobile body (i.e., SIM module) (see fig. 10, col. 8, lines 48-49), and wherein when a personal authentication is successfully completed, the terminal can measure the position of the mobile body (i.e., SIM module manages the data required for the identification of the subscriber) (see abstract and col. 8, lines 65-67).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings to arrive at the claimed invention. A motivation for doing so would have been to ensure the security as related to the transmission of the location information.

8. Claims 13-14, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Giniger in view of Walsh et al. (Walsh), Pub. No. US 2004/0033795.

Regarding claims 13 and 20, Giniger discloses a system (see claims 1 and 20 rejections) wherein the position recording apparatus receives the decryption data from the terminal and decrypts the encrypted position information using the decryption data (i.e., means, coupled to the encrypted present position information receiving means, for decrypting the encrypted present position information) (see col. 6, lines 35-37. Also refer to col. 17, lines 29-57).

Although Giniger discloses a system as described, Giniger does not specifically disclose a system wherein the position recording apparatus stores in a temporary memory the decryption data, the decrypted position information and the result of a predetermined process executed for the decrypted position information and erases (i.e., erasing unit) from the temporary memory the

Art Unit: 2617

decryption data, the decrypted position information and the result of the process after transmitting the result of the process to the terminal.

However, Walsh discloses a system wherein the position recording apparatus stores in a temporary memory the decryption data, the decrypted position information and the result of a predetermined process executed for the decrypted position information and erases from the temporary memory the decryption data, the decrypted position information and the result of the process after transmitting the result of the process to the terminal (i.e., the location-enabled service 108 stores the location information in the location-enabled service. The storage is relatively temporary, until the location-enabled service 108 receives updated location information from the wireless communication device 104) (see paragraph 132).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings as described to arrive at the claimed invention. A motivation for doing so would have been to ensure that updated location information as related to the present position of the terminal is being maintained.

Regarding claim 14, Giniger discloses a system (see claim 13 rejection) wherein the position recording apparatus executes the predetermined process (i.e., the central site server's means for sending the retrieved response information to the mobile unit comprises means for encrypting the retrieved response information; and means, coupled to the retrieved response information encrypting means, for sending the encrypted retrieved response information to the mobile unit via the bidirectional communications link) (see col. 6, lines 37-43).

Art Unit: 2617

9. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Giniger in and Walsh further in view of Olsson.

The combination (Giniger and Walsh) discloses a system as described above (see claim 13 rejection).

Although Giniger discloses a system as described, Giniger does not specifically disclose a system wherein system wherein the position recording apparatus transmits the decrypted position information to a position information service center providing predetermined services utilizing the position information and receives from the position information service center the result of the predetermined process executed by the position information service center.

However Olsson discloses a system wherein the position recording apparatus transmits the decrypted position information to a position information service center providing predetermined services utilizing the position information (i.e., a client's identification information is encrypted with an encryption key previously obtained from a network location server (NLS). The encryption key may be a public key in a public key encryption system. The NLS maintains a record indicating a location associated with the identification information. The encrypted identification information is transmitted from the client to the SP. The SP launches a location request to the NLS that includes the encrypted identification information received from the client) (see paragraphs 10 and 43) and receives from the position information service center the result of the predetermined process executed by the position information service center (i.e., the NLS decrypts the client's encrypted identification information and maintains a record indicating a location associated with the client's identification information. A SP receives the transmitted encrypted identification information from the mobile electronic equipment, transmits

Art Unit: 2617

a location request to the NLS, the location request including the received encrypted identification information, and provides the location-based service to the subscriber via the mobile electronic equipment according to a response to the location request from the NLS) (see paragraph 11).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings as described by the references to arrive at the claimed invention. A motivation for doing so would have been to maintain the integrity and confidentiality of the location information (see paragraph 8).


Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pierre-Louis Desir whose telephone number is (571) 272-7799. The examiner can normally be reached on Monday-Friday 8:00AM- 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Feild can be reached on (571) 272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2617

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


Pierre-Louis Desir
12/21/2006

JEAN GELIN
PRIMARY EXAMINER

